

Patent Abstracts of Japan

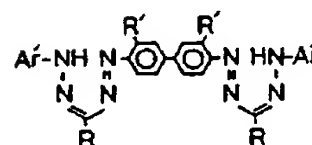
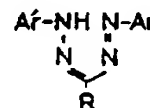
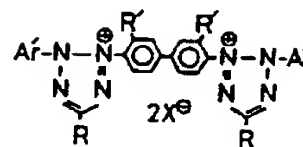
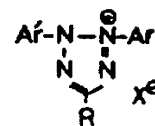
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APPLICANT : AGENCY OF IND SCIENCE &
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INVENTOR : KAWABATA KOJIRO;

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TITLE : ELECTROCHROMIC ELECTRODE



ABSTRACT : PURPOSE: To simplify the structure of a cell and to improve low-voltage driving, memory characteristic, etc., by preparing an electrochromic modifying electrode of a two-electron oxidation-reduction system formed of a chemically stable salt.

CONSTITUTION: The compds. expressed by formulas I-IV are used for the electrochromic display device consisting of the electrolytic cell in which the electrode formed by modifying an org. compd. allowing a reversible change of the color by an electrochemical redox reaction is used as a working electrode. In formulas I-IV, X denotes respectively halogen, acetic acid, perchloric acid anion; R denotes an alkyl, acetyl group, aryl group, nitrogenous heterocyclic group; R' denotes a hydrogen atom, methoxy group; Ar, Ar' denote an aryl group, nitrogenous heterocyclic group. The aryl group and the nitrogenous heterocyclic group contain a condensed ring and substitution products of alkyl, methoxy, halogen, nitro, etc. The redox type org. compd. can be thereby fixed to the electrode surface and, therefore, the structure of the cell is simplified and the driving voltage is lowered.

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